Filed: Herewith Serial No.: Not yet assigned (617) 310-8327 Natasha C. Us Reg. No. 44,381 Docket No.: ASC-022CPCN INFORMAL 100 Sheet 1 of 15 Express Mail Mailing Label No. EV289511652US Sio.746eo.26, 1018 cm - 3 p 0.85 766e0.24,10<sup>18</sup>cm-3p 0.34 510.78Geo.22,1018cm-3p 0.34 Sig80Ge0.20,1018cm-3p 0.85 Si0.82Ge0.18,1018cm-3p 0.34 Si<sub>0.84</sub>Ge<sub>0.16</sub>,10<sup>18</sup>cm<sup>-3</sup>p 0.34 Si0866e014,1018cm-3p 0.85 Sio.88 Geo.12,1018cm-3p 0.34 Sio.90Geo.10,1018cm-3p 0.34 Sig.926eo.08,1018cm-3p 0.85 Si<sub>0.94</sub>Ge<sub>0.06</sub>,10<sup>18</sup>cm<sup>-3</sup>P 0.34 Si0.96Ge0.04,1018cm-3p 0.34 510.98 Geo.02,1018 cm-3p 1.20 0.40 Sio.98Geo.02 Sio.98Geo.02,5x10<sup>20</sup>cm<sup>-3</sup>B 1.60 Si.

"Etch Stop Layer System" by Wu et al.

## FIG. 1A

14 Si0.84Ge0.17 0.34 S10.80 GE0.13 0.34 Sio.88 Geo.12 0.34 Si0.90Ge0.10 0.34 Sin.916e0.09 0.34 SingaGe0.07 0.34 5in 94Ge0.06 0.34 510.96GE0.04 0.34 Sio.976eo.03 0.34 510.99Ge0.01 Si

"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Short 2 of 15 Filed: Herewith

(617) 310-8327

INFORMAL Sheet 2 of 15 Express Mail Mailing Label No. EV289511652US

Sio.66 Geo.34 Si

## FIG. IC

		-130
(1	Sio.70 Geo.30,4x10 16cm -38	5
	Sio.73 Seo.27, 2x10 16cm -3B	0.5
	Si <sub>0.76</sub> Ge <sub>0.24</sub> , 1×10 <sup>16</sup> cm <sup>-3</sup> B	0.5
	Si <sub>0.79</sub> Ge <sub>0.21</sub> ,9xIO <sup>15</sup> cm <sup>-3</sup> B	0.5
	510.82 Ge0.18,8×10 15 cm -3B	0.5
1.34	510.85 Ge0.15, 7x10 15 cm - 3B	0.5
704	5i0.88 Geo.12, Gx10 15 -38	0.5
	5i0.91 Ge0.09, 5x10 15cm -3B	0.5
	510.94Ge0.06,4x10 <sup>15</sup> cm <sup>-3</sup> B	0.5
	510.97Ge0.03,3x1015cm-3B	0.5
	30.97000.03.000	
132-1	Si	<b>\$</b>

FIG. 1D

"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned Filed: Herewith
Natasha C. Us (617) 310-8327

Reg. No.: 44,381
Docket No.: ASC-022CPCN
Sheet 3 of 15 INFORMAL
Express Mail Mailing Label No. EV289511652US

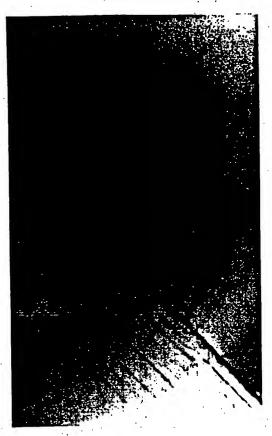
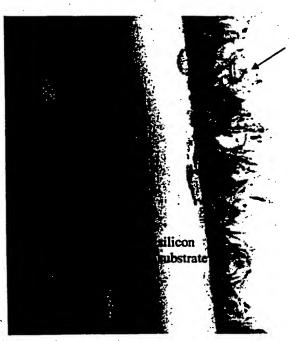


FIG. 2

1.5 µm



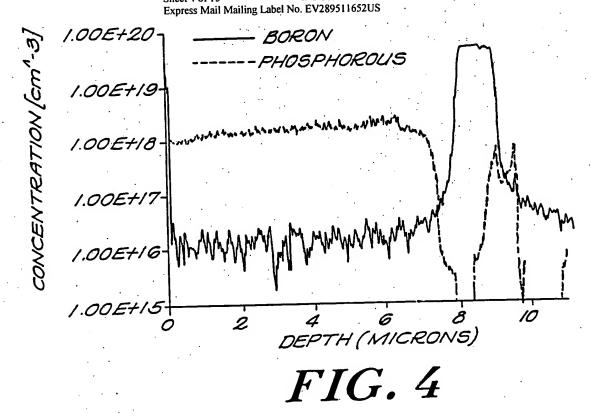
threading dislocations

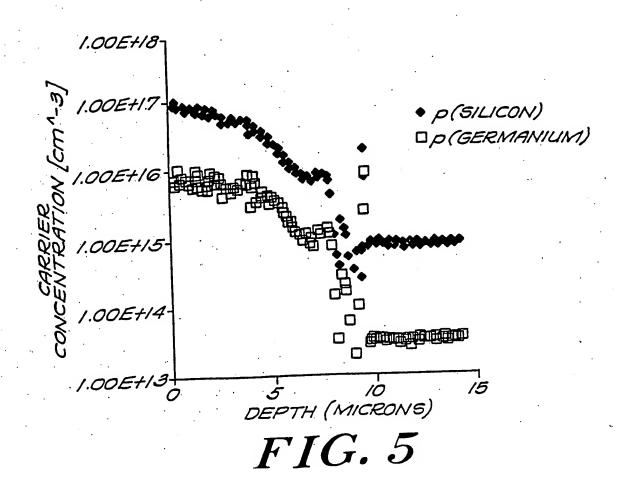
1.3 µm

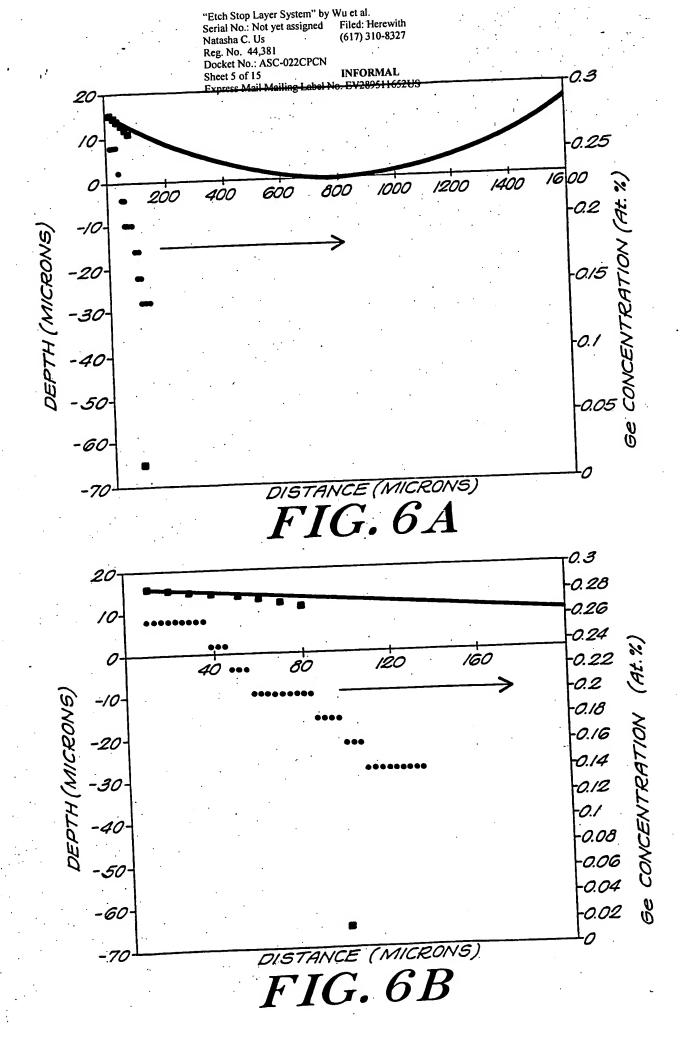
FIG. 3

"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Sheet 4 of 15

Wu et al.
Filed: Herewith
(617) 310-8327
INFORMAL







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"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Sheet 6 of 15
Express Mail Mailing Label No. EV289511652US

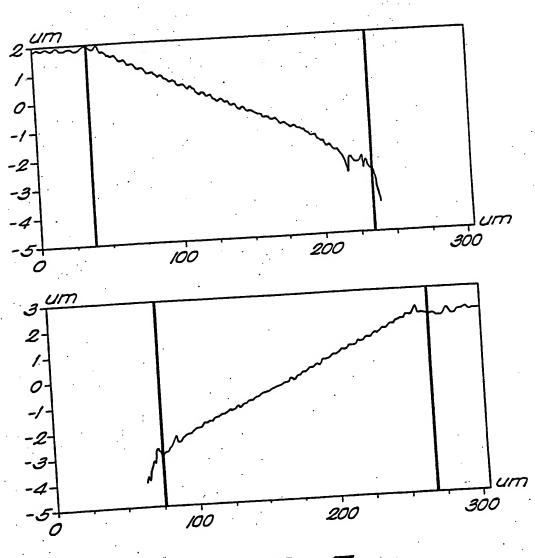


FIG. 7

"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Sheet 7 of 15
INFORMAL

Sheet 7 of 15 INFORMAL
Express Mail Mailing Label No. EV289511652US

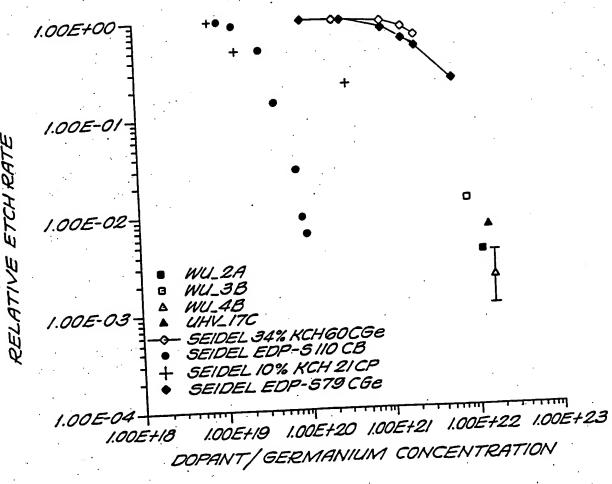


FIG. 8

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Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Chapt 9 of 15

Sheet 8 of 15 INFORMAL Express Mail Mailing Label No. EV289511652US



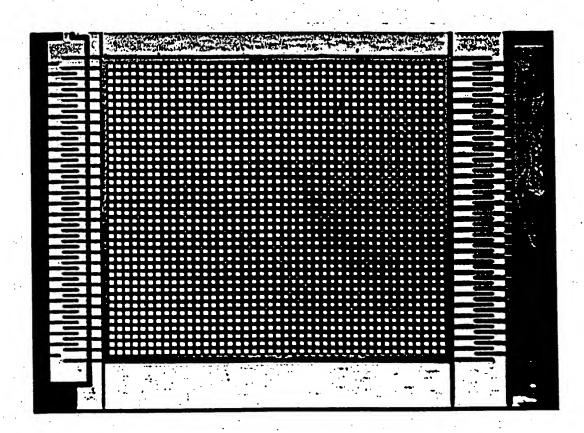
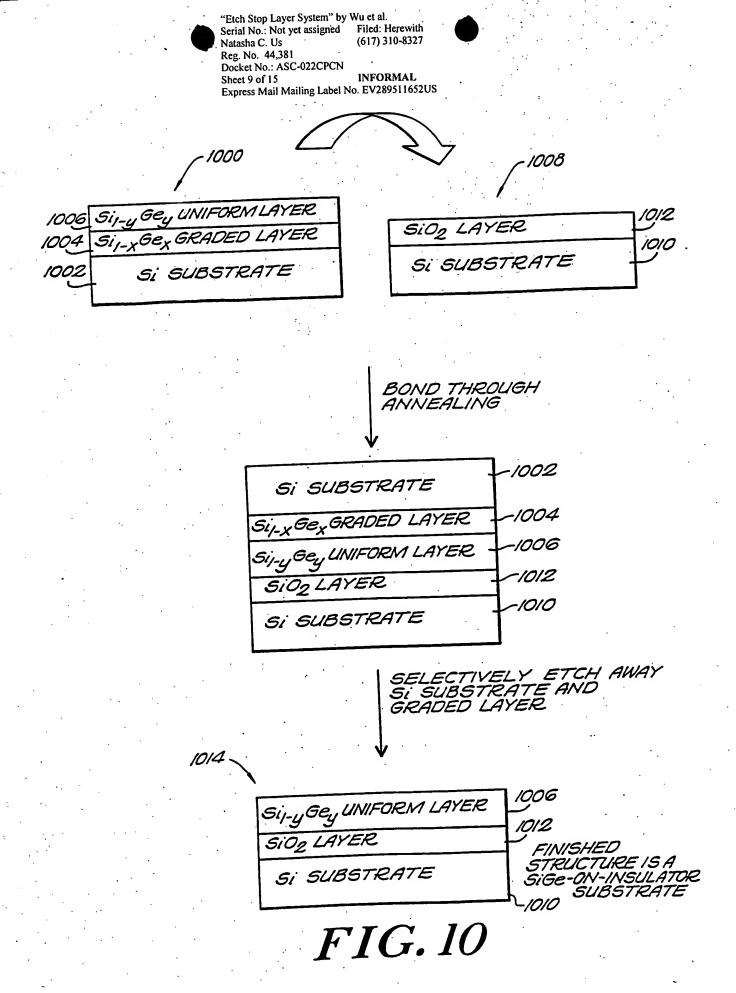


FIG. 9



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Reg. No. 44,381 Docket No.: ASC-022CPCN

INFORMAL Sheet 10 of 15 Express Mail Mailing Label No. EV289511652US

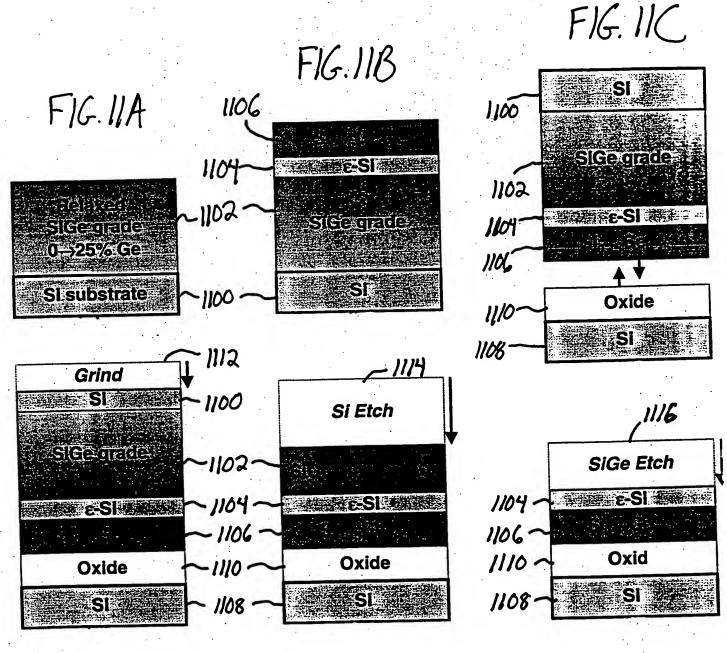


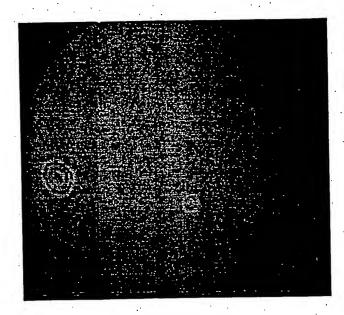
FIG. 11D

FIG. 11E

FIG.11F

"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Sheet 11 of 15

Sheet 11 of 15 INFORMAL Express Mail Mailing-Label No. EV289511652US



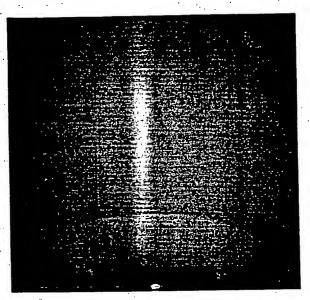


FIG. 12A

F1G. 12B

"Etch Stop Layer System" by Wu et al.
Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Sheet 12 of 15
Express Mail Mailing Label No. EV289511652US

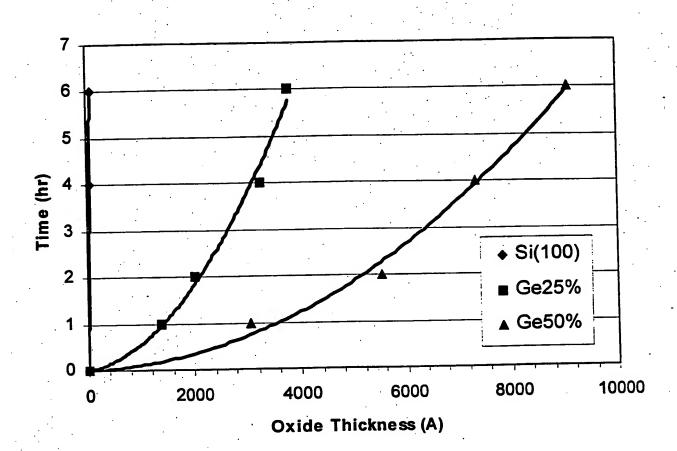
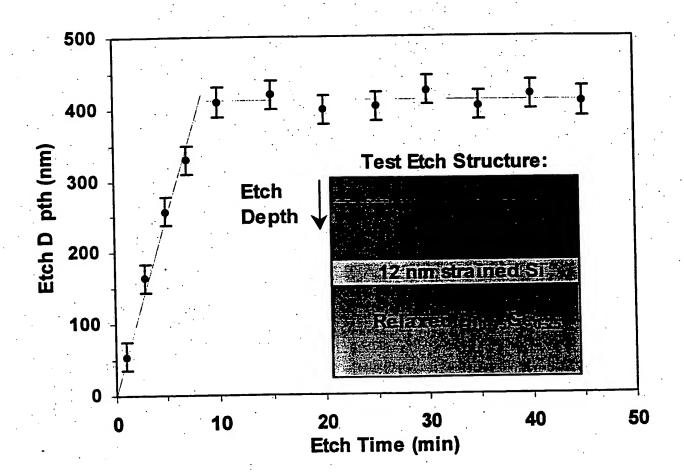


FIG. 13

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Sheet 13 of 15 **INFORMAL** Express Mail Mailing Label No. EV289511652US



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FIG. 14



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Serial No.: Not yet assigned
Natasha C. Us
Reg. No. 44,381
Docket No.: ASC-022CPCN
Sheet 14 of 15

Evenes Mail Mailing Label No. EV290 Filed: Herewith (617) 310-8327

Sheet 14 of 15 INFORMAL
Express Mail Mailing Label No. EV289511652US



FIG. 15

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Serial No.: Not yet assigned Filed: Herewith
Natasha C. Us (617) 310-8327
Reg. No.: 44,381
Docket No.: ASC-022CPCN
Sheet 15 of 15 INFORMAL
Express Mail Mailing Label No. EV289511652US

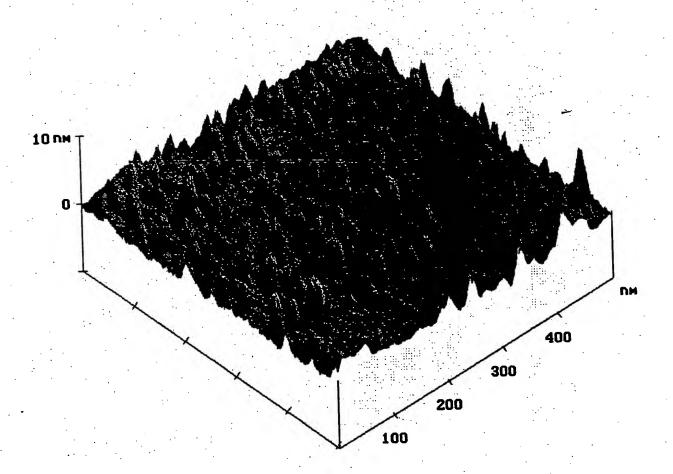


FIG. 16